

LIST OF CRANIA + SKELETONS OF FISHES (by WOODWARD + YARROW?)
(MM-9196)

Sec 5

MM 9196

LIST OF CRANIA AND SKELETONS OF FISHES.

NOTE.—The classification adopted is that of Dr. Theodore Gill, in his

paper
entitled "Catalogue of the Fishes
of the East-coast of North America
Smithsonian Miscellaneous Collec-
tions No 283 Washington D.C.
1873 & the nomenclature for
the marine forms is substan-
tially the same as is followed
~~in that as is given~~ in that
publication. The names of the
fresh water species are based
upon the recent publication
of Gill & Jordan & others.

CLASS **PISCES.**
SUB-CLASS **Teleostei.**

2

piscatorius Linn.

ORDER **Pediculati.**

Family **LOPHIIDÆ.**

Lophius americanus De Kay. Goose Fish; Fishing Frog;
Sea Devil.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
1156 ✓						Smithsonian Inst.
1157 ✓						" "
1164 ✓						Smithsonian Inst.
2376 ✓			Gloucester Mass.	Nov 79	U.S. Fish Com.	" "

ORDER **Plectognathi.**

SUB-ORDER **GYMNODONTES.**

Family **Diodontidae**

Chilomycterus geometricus, (Linn.) Kaup.....

Spring box-fish; Rabbit-fish; Erizo. Porcupine fish

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1723 ✓		Delaware Bay.		
			Atlantic coast	Dr. H. C. Gann ^{USA}	Dr. H. C. Gann ^{USA}
	1889 ✓		Noank Conn.	U.S. Fish Com.	Smithsonian Inst.

Family **TETRODONTIDÆ.**

Chilichthys turgidus (Mitch.), Gill. Rough Puffer; Porcupine Fish; Blower. **Swell-fish;**

Jambon.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1413 ✓		Potomac River	Mr E. Schmidt	
	1884 ✓		Noank Conn	U.S. Fish Com.	Smithsonian Inst.
1920 ✓			Potomac River	Wm. G. Schaphire	

✕

3

✓ Long-tailed File-Fish.

Ceratacanthus aurantiacus, (Mitch.) Gill.

Alutera Schöpf (Walt.)

Hog-fish; File-fish.

Stephanolepis setifer, (Bennett) Gill.

Stomach's File - fish; Food - fish.

197

Order Hemirhamphii
 Family Gasterosteidae
 Sub-family Gasterosteinæ

4

Gasterosteus biaculeatus, Shaw --

Two-spined Stickleback

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	1850 ✓		Woods Hole Mass		U.S. Fish. Comm.	Smithson. Inst.
	2328 ✓		Gasterosteus pungitius Linn. Woods Hole Mass	June 79	U.S. Fish. Com.	Smithson Inst.

Apeltes quadracus, (Mitch.) Brev.

Four-spined Stickleback.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1867 ✓		Woods Hole Mass	U.S. Fish. Com.	Smithson Inst.

ORDER Teleostei.
 SUB-ORDER HETEROSOMATA.

Family Soleidae
 Sub-family Soleinae

Achirus lineatus, (Linn.) Cuv.

American Sole, Corbice Hog-chicken; Cowfish; Spotted Sole

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	1873 ✓		Eastern coast of United States		U.S. Fish Com.	Smithson Inst.
	2347 ✓ 2348 ✓		Solea vulgaris Elbe River Germany	June 1899	U.S. Fish Com.	Smithson Inst.

198

Sub. fam. Pleuronectinae

Family PLEURONECTIDAE
Pseudopleuronectes americanus (Walb.) Gill. Common
Flounder.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1153 ✓	13 ✓	♀			Purchased Smithson. Inst.

Pleuronectes glaber, (Storer) Gill...

Smooth Plaice; Smooth-back Flounder.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
1795 ✓			Portland Maine		U.S. Fish Com.	Smithsonia Inst.
2359 ✓			Wash. Market	Jun 79	" " "	" "

~~Glyptocephalus cynoglossus (Gorbule) Gun~~
~~Wag Flounder~~ ~~Craig Fluke~~

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
2373 ✓			Mass Bay	Jun 79	U.S. Fish Com.	Smith. Inst.

Sub. family Rhombinae

Lophopsetta maculata, (Mitch.) Gill.....

Spotted Turbot; Window-pane; sand Flounder

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1788 ✓		Eastport Maine	U.S. Fish Com.	Smithsonia Inst.

X

Sub. family Hippoglossinae

Chenopsetta ocellaris (De Kay), Gill. Long-toothed Flounder.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	107 ✓				Purchased.
	1771 ✓		Frank Conn	U.S. Fish. Com.	Smithsonian Inst.
			Chenopsetta dentata, (Storer) Gill....		
			Southern Flounder		

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	1785 ✓		St Johns Riv Florida		G. B. Goode	Smithsonian Inst.
	2360 ✓		East Coast	Aug 99	U.S. Fish. Com.	" "

Chenopsetta oblonga, (Mitch.) Gill.

Four spotted Flounder

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1830 ✓		Woods Hole Mass	U.S. Fish Com.	Smithsonian Inst.

Hippoglossus americanus, Gill. Halibut.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
152 ✓					Purchased
			Platysomatichthys hippoglossoides (Wall.) Goode & Bean		
	2206 ✓		Indist.	Nov. 98 U.S. Fish Com.	Smithsonian Inst.

Sub. order Jugulares

Family GADIDÆ.

Sub. family Gadinae

Pollachius carbonarius, (Linn.) Bon.

Pollock; Coal. fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1832 ✓			Eastport-Maine	U.S. Fish. Com.	Smithsonian Inst.
					200

Gadus morrhua, Linn. Common Codfish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
553 ✓	111 ✓	♂			Purchased, "

Sub. Family Phycinae

Phycis chuss (Wall.) G. Ill.
Coddling - old English Hake - Squinned Hake
Sing - Chuss - Fork-beard.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
2368 ✓			Gloucester Mass	June 79	W. Fish Com.	Smithsonian Inst.

Phycis tenuis (Mitch) W. H. Kay.
Coddling & White Hake - Squinned Hake

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
2363 ✓	2357 ✓		East C. W. S. A.	June 79	W. Fish Com.	Smithsonian Inst.
			" "	" "	"	" "

Urophycis regia. (Wall.) G. Ill.
Squatted Coddling.
W. S. A. June 79 W. Fish Com. Smithsonian Inst.

Sub. Family Lotinae

Lota lacustris, (Wall.) Gill... maculata Des

Sing; Burbot; Lake Langer El. - poor Lake cod.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1816 ✓			Alpine Mich.	J. M. Milner	Smithsonian Inst.

Microgadus tomcodus (Walb.), Gill. Tom Cod; Frost Fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
616 ✓					Mr John Gibson
1772 ✓			Woods Hole Mass	W. Fish Com	Smithsonian Inst.

Melanogrammus aeglefinus (Linn.), Gill. Haddock.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
554 ✓	26 ✓				Purchased "

Sub. Family Ciliatidae
Onos. cimbrius (Linn.) G. Ill. & Bean
Rockling

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
2337 ✓			Halifax N. S.	June 79	W. Fish Com	Smithsonian Inst.

Sub. family Brosminae

Brosmius americanus, Gill. European Cusk; Polar Cod Fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	626 ✓				Purchased.

Family MERLUCHIDÆ.

Merlucius bilinearis (Mitch.), Gill. American Hake.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1141 1141 ✓				Smithson. Inst.
	1841 ✓		Woods Hole Mass	U.S. Fish. Com.	Smithson Inst.

Family Lycodidae
Sub. family ~~Efferstinæ~~ Zoarcinæ.

Zoarces anguillaris, (Peck) Storer.

Eel-pout; Cunner-Eel; Lampen-Eel.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1777 ✓		Eastport Maine	U.S. Fish Com.	Smithson Inst.

SUB-ORDER ACANTHOPTERI.

Family CRYPTACANTHIDÆ.

Cryptacanthodes maculatus, Storer. Ghost Fish; Wry-mouth.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	81 ✓					
	2329 ✓			Jun. 79	W.S. Fish. Com.	Prof. J. A. Gies. Smithsonian Inst.

Family Xiphidioutidae

Muraenoides mucronatus, (Mitch.) Gill.

Common Butter-fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1862 ✓		Wood's Hole Mass	W.S. Fish. Com	Smithsonian Inst.

Family Batrachidæ

Batrachus tau, Linn ..

Toad-Fish - Cyster-fish.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	1726 ✓		Chesapeake Bay		Wm. J. C. Yarrow	
	1842 ✓		Frank. Conn.		W.S. Fish. Com	Smithsonian Inst.
					(Am. + Vee)	Günther
	2370 ✓		St. Barbara Cal.	Jun 79	J. C. Yarrow	Smithsonian Inst.

Family Gobiidae
Sub-family Eleotridinae

Eleotris.....

✓

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1863 ✓		w coast of Central America		Smithsonian Inst

Worminator
Skeper

✓

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1859 ✓		west coast of Central America		Smithsonian Inst.

Family Triglidae
Sub-family Wactylopterininae

Wactylopterus volitans (Linn.) Lac.

Flying-robin; Murcielago, Bat-fish; Civeta de mare

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	1794 ✓		Woods Hole Mass		W.S. Fish Com	Smithsonian Inst.
	2414 ✓		" " "	Aug 1860	" " "	" "

Sub-family Triglinae.

Prionotus evolans (Linn.) Gie.
Lined sea-robin; Flying-fish

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	1729 ✓		Bermuda			Dr. J. C. Yarrow
2356 ✓	1730 ✓		East Coast	June 79		Smithson Inst.

Prionotus carolinus (Linn.) Cur. & Val.
Web-fingered sea-robin; Carolina robin

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1783 ✓		Frank Coni	U.S. Fish Com	Smithson Inst.

Family Agonidae
Sub-family Septagorinae
Aspidophorodes monopterygius (Bloch)^{Storer}
Greenlander.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
2323 ✓			Mass. Bay	June 79	U.S. Fish. Com	Smithson Inst.

Family Cottidae
Sub-family Cottinae
Cottus octodecimspinosus Mitch.
Slender sculpin; Grubby.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1812 ✓		Portland Maine	U.S. Fish. Com	Smithson Inst.

Family Scorpaenidae
Sebastes marinus (Linn.) Lütken
 Red. fish. Snapper.

[illegible]

cran	skel	sex	<u>Sebastichthys atrovirens</u> Jor. and Gill.			
	24445		Locality	Date	Collector	Donor.
			San Francisco, Cal.	June 1881.	Smithsonian	Institution
	24455		<u>Sebastichthys maliger</u> Jor. and Gill.			
			California	Aug. 81.	Smithsonian	Inst.
			<u>Sebastichthys Carnatus</u> Jor. and Gill.			
24446			San Fran. Cal.	June 81.	Smithsonian	Institution
			<u>Sebastichthys mystinus</u> Jor. and Gill.			
24452			San. Fran. Cal.	Aug. 1881.	Smithsonian	Inst.

Family LABRIDÆ.
Tautoga onitis (Linn.), Günther. *Black Fish; Tautog.*

<i>Cran.</i>	<i>Skel.</i>	<i>Sex.</i>	<i>Locality.</i>	<i>Collector.</i>	<i>Donor.</i>
	54 ✓	♂			Purchased
576 ✓					"

Tautoglabrus adspersus (Walbaum) Gill
Common. Perch. Stripes.

<i>Cran.</i>	<i>Skel.</i>	<i>Sex.</i>	<i>Locality.</i>	<i>Collector.</i>	<i>Donor.</i>
	1775 ✓		Portland Maine	U.S. Fish Com	Smithsonian Inst.

Sub-family Julidinae.
Oxypholis modestus (Gies.) Gies

<i>Cran.</i>	<i>Skel.</i>	<i>Sex.</i>	<i>Locality.</i>	<i>Collector.</i>	<i>Donor.</i>
	1858 ✓		Santa Barbara Cal	Dr. H. C. Gann	Smithsonian Inst.

Family Embiotocidae
Halcovotus rhodotenus Girard.
California viviparus Perch

<i>Cran.</i>	<i>Skel.</i>	<i>Sex.</i>	<i>Locality.</i>	<i>Collector.</i>	<i>Donor.</i>
	1739 ✓		Santa Barbara Cal		
	1740 ✓		" " "	Wm. J. C. Yarman U.S.A.	

Taeniotoxa lateralis (Agass.) Agass

<i>Cran.</i>	<i>Skel.</i>	<i>Sex.</i>	<i>Locality.</i>	<i>Date</i>	<i>Collector.</i>	<i>Donor.</i>
2372 ✓			California	June 1899	Wl. Fish. Com.	Smithsonian Inst.

Embriotochilina ja Kooni & Aysling / ~~Günst~~
2371 St. Barb. Cal. Jun 79 St. C. Yarrow Bonneton 2-12

Family Pomacentridae

Glyphidodon saxatilis (Linn.) Cuv. & Val.
 Cow-pilot; Sergeant-major.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1751 ✓		Bermuda	Fred. Mather	Wm. H. C. Gamm
1813 ✓			"	G. B. Goode	Smithsonian Inst.

Family Tenthididae.
Acanthurus chirurgus Bloch. & Schneider
 Surgeon-fish; Barbero; Doctor-fish

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1725 ✓		Bermuda	Fred. Mather	Wm. H. C. Gamm

Family Chaetodontidae
 Sub-family Chaetodontinae

Saethodius bimaculatus (Bloch) Poey
 Four-eyed fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1762 ✓		Bermuda	G. B. Goode	Smithsonian Institution
			Heros.....		

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1861 ✓		West Indies Cent. Amer.	?? B. Gamm	Smithsonian Inst.
			?? Guatemala	?? B. Gamm	

Holacanthus ciliaris Lac.
Isabelita; Angel-fish

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1773 ✓		Bermuda	G. B. Goode	Smithson Inst.

Family Trichiuridae
Trichiurus lepturus Linn.
Silver Hair-Tail; Sword-Fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1711 ✓			Chesapeake Bay	Dr. Jos. R. Smith & a	
1868 ✓			Beaufort N.C.	Dr. H. C. Gann	Smithson Inst.
1869 ✓			" " "	" " "	" "

Family SCARIDÆ.

Scarus radiatus Val.
Spanish Parrot

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1743 ✓		Bermuda	Ed Mather	Dr. H. C. Gann
	1744 ✓		"	" "	" " "
1748 ✓			"	" "	" " "

Pseudocarus guacamaia (Cuv. and Val.), Günther,
Parrot Fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
812 ✓					Dr. Johnson Elliott
846 ✓					Capt. Asa Fish U.S.

Family Scombridae.
Scomber scombrus, Linn. Mackerel.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	59 ✓	♂			Purchased
1100 ✓					Purchased
2412 ✓			Scomber pneumatophorus W. La Roche Provence near S. M. Fish Com. Aug 1880		Smithsonian Inst.

Sub-family Oxyrinchi.
Sarda melamys (Linn.) Cuv.
Bonito; Skip-jack.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1800 ✓		Frank Com	U.S. Fish Com.	Smithsonian Inst.

Thynnus (Linn.) Gmel.

Oreynus ~~undulatus~~ (Günther), Gill. Horse Mackerel; Tunny.

Barracuda albicoma

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1168 ✓	1168 ✓				Smithsonian Inst.
1169 ✓					Smithsonian Inst.
1170 ✓					" "

Euthynnus ~~Oreynus~~ *pelamys* (Linn.) ~~Percy~~ Lütken
Oceanic Bonito.

Cran.	Skel.	Sex.	Locality.	Wali	Collector.	Donor.
2378 ✓			Woods Hole, Mass.	June 79	W.D. Fish. Com.	Smithsonian Inst.

Cybium maculatum (Mitch.), Cuv. Spanish Mackerel.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	790 ✓				Purchased
1092 ✓					"

Family Carangidae.
Sub-family Vomerinæ.
Vomer setipinnis (Mitch.) Ayres.
Horse-fish; Dorobado.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1769 ✓		N.Y. Market		Smithsonian Inst.

X.

Selene

Argyrosus vomer, Lac. ~~Latimer~~

✓ Jonobado

Morseman.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1894 ✓		Beaufort N.C.	Wm. J. L. Gann	Smithsonian Inst

Selene

~~Argyrosus~~ capillaris (Mich.) De Kay.
Moonfish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1715 ✓		Chesapeake Bay	Wm Jos. R. Smith U.S.A.	

Sub-family Caranginae

Decapterus punctatus, (Ag.) Gill.

Dotted snail; Round-robin

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1801 ✓		Bermuda	G. B. Goode	Smithsonian Inst

Trachurops crumenophthalmus, (Bloch) Gill....

Big-eyed Sead; Chicharro; Gaggler;
Goggle-eyed Jack

✓

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1838 ✓		Woods Hole Mass	W.S. Fish Com.	Smithson. Inst.

Paratractus pisquetos, (Cuv. and Val.) Gill.....

Yellow cwealli; Cojinna; Jack;
Buffalo Jack.

✓

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1825 ✓		Woods Hole Mass	W.S. Fish Com	Smithson Inst.

Carangus hippos, (Linn.) Gill.....

Horse cwealli; Siquagua.

✓

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1822 ✓		Woods Hole Mass	W.S. Fish Com.	Smithson Inst.
	1828 ✓		" " "	" " "	" "
1888 ✓			Beaufort N.C	Dr. H.C. Yarrow	" "

X.

212

Blepharichthys crinitus, (Akerly) Gill.....

Thread-fish - Sailor.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1768 ✓		Woods Hole Mass	U.S. Fish. Com	Smithsonian Inst.

Sub-family Trachynotinae
 Trachynotus ovalis (Linn.) Günther
 Short pompano; Palorrieta

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1716 ✓		Chesapeake Bay	Wm. Loo. R. Smith	U.S.A.

Trachynotus carolinus (Linn.), Gill. Pompano; Crevalle.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1211 ✓				
	1761 ✓		Woods Hole Mass	U.S. Fish. Com	Purchased Smithsonian Inst.
	1820 ✓		N.Y. Market		" "

Sub-family Centrolophinae

20

Halatractus zonatus, (Mitch.) Gill.....

Rudder-fish; Bonito.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1811 ✓		Woods Hole Mass	W.S. Fish Com	Smithson. Inst

Family Coryphaenidae.

Coryphaena sueuri, Cuv. and Val.....

Sesneuv's Dolphin

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1881 ✓		Eastern coast of United States		Smithson. Inst.

Family Stromateidae.
Sub-family Centrolophinae

Palinurichthys perciformis, (Mitch.) Gill.....

Black madder-fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1829 ✓		N.Y. Market		Smithson Inst.

20.

214

Sub-family Stromateinae.

21

Poronotus triacanthus, (Peck) Gill.....

Harvest-fish; Butter-fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1774 ✓		Noank Conn.	U.S. Fish Com	Smithsonian Inst.
	1831 ✓		Eastport Maine	" " "	" "

Peprilus gardenii, (Bl, Schm.) Gill.....

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1778 ✓		Wash. Market		Smithsonian Inst.

Family Benzoidae Sub-family Holocentrinae.

Holocentrum sogo, Bloch.....

Matājuelo; Squirrel.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1746 ✓		Bermuda	F. Mather	Dr J. C. Gann
	1749 ✓		"	F. Mather	" " "
1750 ✓			"	F. Mather	" " "

22

Family *Sciæmidae*.
 Sub. family *Utolithinae*

Cynoscion carolinensis (Cuv. and Val.), Gill. *Salmon Trout*; *Spotted Sea Trout*.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1146 ✓				Smithsonian Inst.
1190 ✓			1869		W. F. Schapfer - U.S.A.

Cynoscion regalis (Bloch), Gill. *Squeteague*; *Weak Fish*; *Gray Trout*.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	105 ✓	♂			Purchased
	110 ✓	♀			"
556 ✓					"

Sub. family *Haplodonotinae*

Haplodonotus grunniens, Raf....

Large sheepshead; white perch; Grunter; Drum

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1579 ✓		State New York.	F. Mather	F. Mather
	1796 ✓		Detroit - Mich.	J. W. Milner	Smithsonian Inst.

Pogonias chromis, Lac.....

Worm ; Oyster Drum

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
120 ✓					Purchased
	1096 ✓				Purchased.
Pat. Bone					
1741			Chesapeake Bay	Wm. L. R. Smith	Wm. L. R. Smith

Sub. family Liostominae

Liostomus xanthurus, Lacep. Yellow Tail ; Spot.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	877 ✓	Imm.			
878 ✓	885 ✓	ad		Wash. Sten	A. K. Ferris W. L. A. Purchased.
886 ✓					"
887 ✓					"

Liostomus obliquus (Muhl.) W. L. A. K. & G.
La Fayette - Gordy - Chub. Roach.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	2332 ✓		St. Johns Riv. Fla	June 79	W. L. Fish. Com.	Smithson. Inst.

Sub. family Sciaeninae.

Sciaenops ocellatus (Linn.), Gill. Red Bass ; Bass ; Sea Bass ; Red Fish ; Ocellated Drum.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	142 ✓				Purchased.
559 ✓					"
			Bairdiella punctata (Linn) Gill		
			Silver Perch.		

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1855 ✓		Brunswick geo		Smithson. Inst.
28					217

Menticirrhus nebulosus (Mitch.), Gill. King Fish; Whit-
ing, Male; Barb.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1145 ✓				Smithsonian Inst.
1149 ✓					" "
1151 ✓					" "
	1154 ✓				Smithsonian Inst.
	1782 ✓		Woods Hole Mass	U.S. Fish. Com	Smithsonian Inst.
<u>Menticirrhus undulatus</u> . (Grd.). Gill.					
2434			Santa Barbara Cal.	June 1881.	Smithsonian Inst.
Menticirrhus littoralis, (Holbr.) Gill.....					

Shore whiting

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1846 ✓		Florida		Smithsonian Inst.

Micropogon undulatus (Linn.), Cuv. and Val. Croaker ;
Hick Fish.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	1144 1044 ✓					Smithsonian Inst.
1147 ✓	2349 ✓		East Coast	June 79	U.S. Fish Com	" "

74

Family Gerriidae.
Encinostomus leproyi Goode
Long-boned shad.

✓

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1804 ✓		Bermuda	G. B. Goode	Smithsonian Inst.

Family Pimelepteridae

Pimelepterus, boscii, Lac.....

Chopabanca; Brean

✓

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1745 ✓		Bermuda	Ernest Mather	Mr. H. C. Gann
1770 ✓			"	G. B. Goode	Smithsonian Inst.

Family SPARIDÆ.

Sub-family Sparinae.

Lagodon rhomboides, (Linn.) Holbr.....

Sargo.

✓

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1892 ✓		Florida		Smithsonian Inst.

28.

Archosargus probatocephalus (Walb.), Gill. Sheephead.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
574 ✓	61 ✓	♂				Purchased
	1781 ✓		N.Y. Market.		U.S. Fish Com	Smithsonian Inst.
	2341 ✓		Sargassum hollow Charleston S.C. Jan. 79		W.H. Bean. U.S. Fish Com.	Smithsonian Inst.

Stenotomus argyrops (Linn.), Gill. Scup; Porgy.

Scup; Porgy; Bream
Fair-maid.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1201 ✓				Purchased
1202 ✓					"
1203 ✓					"
1204 ✓					"
	1212 ✓				Smithsonian Inst.
	<u>1776</u> ✓		Woods Hole Mass	U.S. Fish Com	Smithsonian Inst.
Sub Family Priostomatidae					
<u>1876</u> ? Dr. Shipley					
Sub family Priostomatinae					

Orthopristis chrysoptera (Mitch.) Gill.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	2361 ✓			Jan 79	U.S. Fish. Com.	Smithsonian Inst.

Gunt.

26 A

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1843 ✓		Bermuda	G. B. Goode	Smithsonian Inst.
Hæmylum flaviguttatus, Gill.....					

Yellow spotted Gunt.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1891 ✓		Colima		Smithsonian Inst.

Hæmylum.....

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1871 ✓			Florida		Smithsonian Inst.

Rhomboplites aurorubens (C. & V.) Gill
Basalard Snapper

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	2352 ✓		Charleston S.C.	Jan 79	W. B. Fish. Com.	Smithsonian Inst.

Sub-family Lutjaninæ

Lutjanus caxis, (Bl., Schn.) Gill...

Yellow, Glass-eyed snapper.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1798 ✓		Bermuda	G. B. Goode	Smithsonian Inst.

Lutjanus blackfordii Goode & Bean

Blackford's Snapper -

Coast of Florida

Eng. Blackford, G. B. Goode

2165 ✓

221

Sub-family Serraninae
Epinephelus striatus, (Bloch) Gill.
 Hamlet; Grouper

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1792 ✓		Bermuda	G.B. Goode	Smithsonian Inst.

Epinephelus guttatus, (Gmelin) Goode.
 Hind.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	1806 ✓		Bermuda		G.B. Goode	Smithsonian Inst.
2354 ✓				Jun 79	W.A. Fish. Com	Smithsonian Inst.
						<i>Epinephelus morio</i> (Cuv) Gill. Red Grouper

Centropristes atrarius (Linn.). Black Sea Bass.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
575 ✓	11 ✓	♂			Purchased
1835 ✓	1734 ✓		Bermuda	F. Mather.	Dr. H.C. Garraway
			Woods Hole Mass	W.A. Fish Com	Smithsonian Inst.

Family Etheostomidae
Diplesium bleinnivides (Raf.) Jordan
 Green sided Warts.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	2415 ✓		Black Riv. Ohio	Aug 16th	W.W. Jordan	Smithsonian Inst.

Family Percidae

americanus Schrank

Perca ~~flavescens~~ (Mitch.). Yellow Perch.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	24 ✓	♀			Purchased.
568 ✓				W. F. Schrank	
568					Purchased
	1833 ✓		Wash marker		Smithson. Inst.
	1884 ✓		Sandusky Ohio		" "

thium nitreum (Mitch.) Jor. & Copeland.

Stizostedion americanum, Girard. Pike Perch.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	148 ✓	♂			Wash. Stein.	A. K. Fernis W. A.
	1875		Ecorse Mich.			Smithson. Inst.
2355 ✓			East-Cross June 79		W. F. Schrank	" "
			Stizostedion quiseum (De Kay) Milne			
			Sanger, Gray Pike Perch.			

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
1741 ✓			Delaware River		W. F. Schrank	C. Barrett
	2333 ✓		Memphis Tenn	July 79	W. F. Schrank	Smithson. Inst.

Percina caprodes (Raf.), Girard. Hog Fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	170 ✓	♂			Purchased

ichthys is for.

~~Boleophthalmus~~ fuciforme, (Girard.) Darter.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	74 ✓	♂	S	1866 Wash. Stein	E. Schaphorst-Wla

Family LABRACIDÆ.
Morone americana (Gmelin), Gill. White Perch.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	23 ✓	♀			Purchased
558 ✓					"
near Serranus					
			Paralabrax clathrata, Grd...		

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1870 ✓		Santa Barbara Calif.	Wm. H. C. Garman	Smithson. Inst.

Roccus lineatus (Bl. Sch.), Gill. Striped Bass; Rock Fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	3 ✓	♂	n		Purchased
43 ✓				1866 Wash. Stein	E. F. Schaphorst-Wla

Roccus chrysops, (Raf.) Gill... White Bass - Striped Lake Bass

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1872 ✓		Lake Erie		Smithson. Inst.
30					224

(2.)

Family CENTRARCHIDÆ.
Lepomis auritus, Gill. Long-eared Sunfish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	5 ✓				Purchased
860					
865 ✓	1886 ✓		1866 Susquehanna Riv Pa	Wm. F. Schaffner - W. A. Smithson. Inst.	

Lepomis pallidus, (Mitch.) Gill and Jordan....

Pale Sun-fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1883 ✓		Sandusky Ohio		Smithson Inst.

Lepomis atriatus Cope.
Fly-specked Sun-fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1893 ✓		Florida		Smithson Inst.

Lepomis

Xenotis sanguinolentus, (Ag.) Jordan..

Blue & orange Sunfish; Sun Perch.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1854 ✓		Tangipahwa Riv. La	Wm J. Bean	Smithson Inst.

XX

Eupomotis aureus, (Walb.) Gill and Jordan.... Common Sunfish; Pumpkin-seed;
Tobacco-box.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	815 ✓		1866 Wash. Slur.	E. P. Schaphin - W. A.	
	1735 ✓		Bermuda	W. H. P. Gamm	
1747 ✓			"	" " "	

Eupomotis speciosus, (Holbr.) Gill...

Southern Sun Fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1889 ✓		Florida		Smithsonian Inst.
			(Ord.)		

Enneacanthus obesus, Gill. Mottled Sunfish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	817 ✓		1866	W. P. Schaphin - W. A.	
1150 ✓					Smithsonian Inst.

Chænobryttus viridis, (Cuv. and Val.) Jordan.

Green Sun fish.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	1890 ✓		Florida			Smithsonian Inst.
	2330 ✓		Blue spotted Cumber Riv	July 79	W. P. Schaphin - W. A.	Smithsonian Inst.

Centrarchus inidens C & V. Shinin Bass.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	2413 ✓		North Carol.	Aug 1880	W. P. Schaphin - W. A.	Smithsonian Inst.

Pomoxys nigromaculatus (Les.) Grd.

Hyperistius carolinensis, Gill. Black Spotted-Sunfish.

Bitter-head

Grass Bass, Calico Bass, Bar-fish, Strawberry Bass

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
-------	-------	------	-----------	------	------------	--------

~~823~~ ✓

1779 ✓

Wilmington N.C.

Mr. F. M^c Guire

Smithsonian Inst.

Pomoxys annularis Raf. Crappie - Bachelor

~~2335~~ ✓

Ohio Jun. 79 U.S. Fish Com. Smithsonian Inst.

Micropterus salmoides (Lac.), Gill. Small-mouthed
Black Bass; Black Bass.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
-------	-------	------	-----------	------------	--------

147 ✓

♂

Purchased

~~1789~~ ✓

Upper Potomac Riv.

Smithsonian Inst.

~~1799~~ ✓

Holyoke Mass. U.S. Fish Com.

" "

~~*Salmoides* (Lac.) Valenciennes & Bonaparte~~
Salmoides (Lac.) Valenciennes & Bonaparte

Micropterus floridanus (Les.), Gill. Oswego Bass. Large-mouthed
Black Bass,

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
-------	-------	------	-----------	------------	--------

~~1787~~

~~1142~~ ✓

La

Tangipahwa Riv. Mr T. Bean

Smithsonian Inst.

227

" "

Rock Bass; Goggle-eye Red eye

32

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1877 ✓		Sandusky Ohio		Smithson. Inst.

Family EPHIPPIDÆ.

Parephippus gigas, Gill. Moon Fish.

Chaetodipterus

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	68 ✓	♂			Purchased
850 ✓					"

Chaetodipterus

Parephippus quadratus, (Gill.) Gill

Moon Fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1876 ✓			Beaufort N.C.	W. J. P. Yarner	Smithson. Inst.

Family POMATOMIDÆ.

Pomatomus saltatrix (Linn.), Gill. Mackerel; Skip-Jack.

(Blue Fish)

Horse-mackerel; Green-Fish; Tailor.
Smapping-mackerel; White-fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	63 ✓	♂			Purchased
67 ✓					"
555 ✓					"
1158 ✓					Smithson Inst.

Sub. Under Inertae sedis
Family Ammodytidae

33

Ammodytes americanus, DeKay.....

Sand-lance; Sand-Eel.

✓

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1865 ✓		Woods Hole Mass	U.S. Fish Com	Smithson. Inst.

E

Family ECHINEIDAE.

Leptecheneis naucrateoides (Zuiew.), Gill. Sucker.

✓

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
2369 ✓	71 ✓		Newport R.I.	Jun 79	Mr C. Klotz. U.S. Fish. Com.	Smithson. Inst.

Family Sphyræniidae.

Sphyræna borealis, DeKay.....

Northern Hammerhead; Serpent

✓

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1815 ✓		Woods Hole Mass	U.S. Fish. Com	Smithson. Inst.

35

229

Family Mugilidae (Mullet)

Mugil.....

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1887 ✓		East coast W.I.		Smithsonian Inst.
✓			Mugil cephalotus (?).....		

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1880 ✓			Honolulu		Smithsonian Inst.

Family Atherinidae.

Chirostoma notata (Mitch.), Gill. Silver-sides.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
882 ✓					Wash. Slur. A. K. Ferris
	1767 ✓		Woods Hole Mass	W. Fish Com.	Smithsonian Inst.

SUB-ORDER SYNENTOGNATHI.

Family BELONIDÆ.

Belone longirostris (Mitch.), Gill. Silver Gar; Bill Fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	55 ✓	♂			Purchased
562 ✓					"

Belone latimans & Poy.
Gar fish.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
2350 ✓			W. G. Mather	Jan 1899	W. Fish Com.	Smithsonian Inst.

Family Scomberesocidae.
Exocoetus exiliens, Gmelin. Flying Fish.

✓

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1054 ✓		West coast of Africa	Mr. John B White USA	
	2451		<i>Exocoetus californicus</i> (Cooper) San Pedro Cal ^{Aug 1881} Smithsonian Inst.		

Hemirhamphus pleii, Val.

✓ Red. villa gan.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1793 ✓		Bermuda	S.B. Gorde	Smithsonian Inst.

Scomberesox scutellatus, Le S.

Skipper, saury; skin - Jack.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1840 ✓		Cape Cod Mass.	W. Fish Com.	Smithsonian Inst.

X

SUB-ORDER HAPLOMI.

Family ESOCIDÆ.

Esox nobilior, Thompson

✓ Muskallunge. Great Pike.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1817 ✓		Sandusky Ohio		Smithson. Inst.

Esox lucius, Linn. Lake Pike; Mascalunge.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	146 ✓	♀			Purchased
609 ✓	1809 ✓		Sandusky Ohio		" Smithson. Inst.

Esox americanus, Lac.

Banded Pickerel. Small Pickerel.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1790 ✓			New York Market	N. Fish Co	Smithson Inst.

Esox reticulatus, Lesueur. Pickerel.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	16 ✓	♀			Purchased.
557 ✓					"

Family CYPRINODONTIDÆ.

Fundulus heteroclitus (Linn.), Gill. Mummichog.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	880 ✓			Hasp. Stein	A. K. Ferris U.S.A.
1133 ✓			1868	Wm. F. Schaphorst	U.S.A.
38					232

Fundulus ~~bairdii~~, Agass. Baird's Stone-tugger.

Sp.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	103 ✓		1866	Josh. Stew.	E. F. Schaphis. ^{usa}

Fundulus pisculentus, (Mitch.) Val.

Mummichog - minnow.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1763 ✓		Woods Hole Mass.	W. Fish Com	Smithson. Inst.
	1764 ✓		Bermuda	G. B. Goode	" "

Hydrargyra majalis (Walb.), Val. Mummichog.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	881 ✓			Josh Stew.	A. K. Fernis ^{usa}
	1765 ✓		Woods Hole Mass	W. Fish Com	Smithson Inst;
	1766 ✓		" " "	" "	" "
			Family Umbriidae		

Melanura limi, (Kirt.) Ag.

mud minnow: Mud dace Wag fish

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1848 ✓		Northfield Ill.		Smithson Inst.

SUB-ORDER ISOSPONDYLI.

Family Synodontidae

Synodus foetens, (Linn.) Gill

Snake - fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1847 ✓			Beaufort N.C.	Dr H. C. Yarrow	Smithson. Inst.
					253

Family MICROSTOMIDÆ.
Osmerus mordax (Mitch.), Gill. Smelt.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
1064 ✓	(2)			1868	Wm F. Schaffner - U.S.A.	
2321 ✓			Osmerus pacificus Nas. Riv. Wash. Terr.	June 1899	W.D. Fish Com.	Smithsonian Inst.

Family SALMONIDÆ.

Oncorhynchus quinnat (Rich.) Günther.
California, Columbia, or Quinnat Salmon

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
2362 ✓			McCloud Riv. Calif.	June 79	W.D. Fish Com.	Smithsonian Inst.
2421 ✓			Oncorhynchus Frazar Riv. Salmon B.C.	May 81	W.D. Fish Com.	Smithsonian Inst.

Salmo trutta

2058 ✓			Bear River Wyoming		Wm Clemens U.S.A.	
2367 ✓			Salmo sebago Grd. Sand locked Schovack Lake Maine	June 79	W.D. Fish Com.	Smithsonian Inst.

Salvelinus

Salmo fontinalis (Mitch.) Brook Trout.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
58 ✓		♂			F. R. Grove U.S.A.
571 ✓	1845 ✓		Madrid N.B.		Purchased Smithsonian Inst.

Salvelinus

Gill & Jordan.

Salmo equassa (Grd.)

Blue back Trout - Equassa.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1885 ✓			New York		Smithsonian Inst.

Cristivomer namaycush (Walb.) Gill & Jordan,

Salmo confinis, De Kay. Lake Trout.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1288 ✓	144 ✓	♂			Purchased

Thymallus tricolor, Cope....

Grayling.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1578 ✓		New York State <i>clupeiformis</i>	Fred. Mather. (Mit.) Milner	

Coregonus albus, Loe. White Fish.

Gizzard and fish

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	131 ✓	♂			Purchased.

Family Albulidae.

Albula conorhynchus, Bl. and Schn.....

Shad - fish.

Cran.	Skel.	Sex.	Locality.	Notes	Collector.	Donor.
	1780 ✓ 2365 ✓		Bermuda New Bedford		G.B. Goode U.S. Fish. Com.	Smithsonian Inst. " "

4x.

Family ELOPIDÆ.

Elops saurus, Linn.

Big eye herring; matajuelo blanco; real.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1802 ✓		New Bedford Mass	U.S. Fish Com	Smithsonian Inst.

Megalops thrissoides (Bl. Sch.), Günther. Jew Fish; Tarpum.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1140 ✓				Smithsonian Inst

Family Moxostomidae.

Etrumeus teres, (DeKay) Brevoort.

Round herring.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1866			Wood's Hole Mass	U.S. Fish. Com	Smithsonian Inst.

Family Ictaluridae

Hyodon tergisus, Le S.

Moon-eye; Silver-bass; Toothed herring.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1797 ✓			Sandusky Ohio		Smithsonian Inst.
42					236

Family CLUPEIDÆ.

Tyrannus (Latrobe) Goode.*Brevoortia menhaden* (Mitch.) GillMenhaden; moss-bunker; hard head; honey-fish; bunker
white-fish; bar-back; yellow tail; big-fish

Cran.	Skel.	Sex.	Locality.	Wati	Collector.	Donor.
	1791 ✓		Words Hole Mass		W.S. Fish Com	Smithsonian Inst.
	2358 ✓		Brevoortia patronus Goode. Alameda Pensacola Fla	Jan. 79	W.S. Fish Com	Smithsonian Inst.

Alosa sapidissima (Wilson), Storer. Shad.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	36 ✓	♀			Purchased
570 ✓					"

Opisthonema thrissa, Gill

Thread herring, menhaden.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1879 ✓			Eastern shore of Virginia		Smithsonian Inst.

Pomolobus pseudoharengus (Wilson), Gill. Herring;
Alewife.

Gasque on

saw. belly.

Spring herring; blue back

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1070 ✓					Purchased
1071 ✓					"
1072 ✓					"
1073 ✓					"
	1078 ✓				Purchased

Pomolobus mediocris, (Mitch.) Gill

Tailor herring,
ball shad,

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1786 ✓		Woods Hole Mass	W. Fish Com	Smithsonian Inst.

Clupea harengus, Linn.

English herring.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1807 ✓		Casport-Maine	W. Fish Com.	Smithsonian Inst.

44.

Family DOROSOMIDÆ.
Dorosoma cepedianum (Lac.), Gill. Toothed Herring.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
✓	108 ✓	♂			Purchased.
567 ✓					"

Family Engraulidae
 Engraulis
 Anchovy

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1857 ✓		Woods Hole Mass.	U.S. Fish. Com.	Smithson. Inst.

Hypentelium

SUB-ORDER EVENTOGNATHI. (Leis.)

Family CATOSTOMIDÆ.

Hypentelium nigricans, Agassiz. Black Sucker.

Hog Sucker, Stone-roller, Crawls-a-bottom.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	57 ✓			1866	E. F. Schaphus. U.S.
572 ✓					Purchased.
	1844 ✓		Susquehanna Riv. Penna.		Smithson. Inst.

45

commerstonii (Lac.) Jordan.

Catostomus ~~toros~~, Lesueur. Chub; Sucker.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	659 ✓					Purchased
662 ✓					Hosp. Steu. A. K. Fernis	hda
663 ✓					"	" "
664 ✓					"	" "
665 ✓					"	" "
	1731 ✓		Welamane River	Dr J. C.		Gannet
	2346 ✓		Course Mich.	Jun 79	W. Fish. Com.	Smithsonian Inst.

Catostomus longirostrum, Le S.

Long nosed sucker

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1856 ✓			Essex Co. N. Y.		Smithsonian Inst.

~~see also Hyphantidius~~

Catostomus nigricans, Le S.

~~Black sucker~~

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1844		Pema Susquehanna Riv.		Smithsonian Inst.
			sucetta (Lac.)		
			Crinizon (elongum, (Mitch.) Jordan...		
			Creek - fish; Chub. sucker, Yellow mullet.		

For more see page 45
insert nos X Horned Sucker.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1805 ✓		Polomac River		Smithsonian Inst.

X

see page

Moxostoma oblonga, Agassiz. *Horned Sucker.* *Yellow mullet.*

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	806 ✓				Purchased.
804 ✓					"
Carpionides sp. indet.					

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	66 ✓	♂			Purchased.

Family CYPRINIDÆ.
Carassius auratus, Bleeker. *Goldfish.*

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	28 ✓	♀			Purchased
569 ✓					"
630 ← (630 is a skeleton of this fish in the collection R.W. Shufeldt)					
	1742 ✓		Bermuda		Dr. J. L. Sanner
2334 ✓			Cyprinus carpio (Sim. Carp. Wood Hill Park June 1899 Bass. Md.	Wb. Fish Com.	Smithsonian Inst.

Semotilus corporalis, (Mitch.) Putnam

✓ Common chub; Horned dace. Creek Chub.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	169 ✓	♂	1866	Dr. F. Schaphius. U.S.A.	
	1853 ✓		Ohio River		Smithsonian Inst.

X

bullaris (Raf.) Jor.

Semotilus pulchellus, Gill. Chub.

Fall-fish. Chub. Roach. Swamp Carp.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
573 ✓	585 ✓		1866		Purchased
566 ✓	1874 ✓		Pennsylvania	1866	Wm. F. Schaphius. W. A. Smith in list.

same as preceding

~~Semotilus rhothous, Cope. Fall Fish; Swamp Carp.~~

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
566	585		Pennsylvania	Wm. F. Schaphius. W. A. Smith in list.	Wm. F. Schaphius. W. A. Smith in list.

Hybognathus regius, Girard. Gudgeon; River Smelt.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
560 ✓	75 ✓		1866	Wm. F. Schaphius. W. A. Smith in list.	Purchased

48.

Luxilus

Hypsilepis cornutus (Mitch.) ^{for} Shiner Rough-head, Roach, Red-fin, Pot-gut.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	568 ✓	♀			Purchased
864 ✓			1866		Wm F. Schaphius & Co
		J			

2 dus

To Printer see page 48 at * insert.

2 dus melanotus 2 beaked
The Tide

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	2338 ✓		Germany	Jan 79	W. Fish Co.	Smith & Co.

Hybopsis hudsonius (Clinton) ^{Putnam} Shann eater.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	879 ✓				Hosh. Stein, A. H. Fernis & Co.
	1849 ✓		Potomac River		Smith & Co.

Ceratichthys biguttatus (Kirtland) ^{brod} Horned Chub. Horny-head, Jerker, Great River Chub.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
588 ✓			1866		Hosh. Stein, E. G. Schaphius & Co
	592 ✓				Mr Frank Jones.

79

cataractae (Val.) Jordan.

Rhinichthys ~~nactus~~, (Ayres) Ag.

Long nosed dace. Niagara Gorge

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1852 ✓		Carlisle Penna		Smithson, Inst.
	1897 ✓		Indian Territory	Hosp. Steen.	S. Kitching U.S.A.

Notemigonus chrysolenus (Mitch.) Jordan

~~Stilbe americana~~, Linn. ~~Morone~~; Shiner.

Golden Shiner.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	599 ✓				Dr F. Schaphius U.S.A.
	1724 ✓		Delaware River	Wm. M. C. Garrett.	
	1810 ✓		Sandusky Ohio		Smithson Inst.

See ante ✕ insert on page 47

Luxilus cornutus, (Mitch.) Jordan

Common shiner, Red-finned shiner; Rough head; Red-fin

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1851 ✓		Penn Susquehanna Riv		Smithson, Inst.

58.

analostanus (Grd.)

Luxilus kentuckiensis, Gill. Gold-striped Dace.

Silver-side

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	43 ✓		1866	Hugh Stein	E. F. Schapher
Notemigonus americanus (Linn.) Jordan					
Shiner; Stickle; Bream.					

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1810		San dusty Ohio		Smith in note.
Exoglossum maxillingua (Lesueur) Tonguejaw.					
Wag chub; Cut. whs; Trigger chub.					

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	587 ✓				Wm Shepherd Esq.

ORDER Nematognathi.

Family SILURIDÆ.

Ichthaelurus

Ichthaelurus punctatus, (Raf.) Jordan ...

Channel cat; Pike, cat. white cat.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1882 ✓		San dus Ky Ohio		Smith in note
Aminurus albidus (G. S.) Gill					
Ichthaelurus furcifer (Cuv. & Val) Gill.					
Fork. Tailed Cat. fish. Channel Cat of the Potomac					

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1727 ✓		Delaware River		Wm. H. C. Yarrow.
	1728 ✓		"		Wm. H. C. Yarrow.
	2336 ✓		Potomac	W. Fish Com.	Smith in note
June 1879					

Big-mouthed cat-fish

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1784 ✓		Stamington Md		Smithsonian Inst.

Amiurus nigricans, Lesueur.

Lake Catfish; Black Catfish.

Great Mississippi Cat,
Great Florida Cat.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	21 ✓				Purchased.
563 ✓					"
564 ✓					"

Amiurus melas (Raf) Jrd. & Copeland.
Small Black Catfish.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	2322 ✓		Cork Co Ill.	Jun 79	W.B. Fish Com	Smithsonian Inst.

Amiurus natalis lineatus (Le Sueur) Raf.
Catfish - Yellow Cat.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	2339 ✓		Kentucky	Jun. 79	W.B. Fish Com	Smithsonian Inst.

Amiurus atrarius, DeKay. Black Catfish.

Forner Pont. Bull head,
Minister

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1143 ✓				Smithsonian Inst.
	1836 ✓		Potomac River		"

22.

insignis (Rich.) Gill & Jour.

Noturus marginatus, Baird

Margined stone cat.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1860 ✓		Susquehanna Riv.		Smithson Inst.

Noturus epilis. Nelson
Slender Stone Cat.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	2326 ✓		Grand Riv Mo	Jun 79	U.S. Fish. Com.	Smithson Inst.

Noturus gyrinus (Mitch.) Raf.
Tadpole Stone Cat.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	2324 ✓		Piermar N.Y.	Jun 79	U.S. Fish. Com.	Smithson Inst.

	2351 ✓		Anchoa mitchelli (Val)	Jun 79	U.S. Fish. Com.	Gill, Sea Catfish Smithson Inst.
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Rhamdia brachypterus (Cope), Gill. Mexican Catfish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	51 ✓				Prof. J. N. Gill.

53

ORDER Apodes.
SUB-ORDER ENCHELYCEPHALI.

Family Congridae
Sub. fam. Congrinae.
Conger oceanica (Mitch.) Gill.
Conger-eel.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	2344 ✓			Jun 79	U.S. Fish. Com.	Smithson Inst.

Family ANGUILLIDAE.
Anguilla hostoniensis (Les.), DeKay. Common Eel.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	25 ✓				Purchased
1094	1105				"
1095	1105				"
	1105 ✓				Purchased

Family Murænidæ
Muræna sanctæ helensæ Günth.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	2374 ✓		Bermuda	Jun 79	G. B. Goode	Smithson Inst.

Family Synbranchidae.
Synbranchus pinnatus Günther

	2328 ✓		Lat 42° 47' N Long 63° 10' W 345 fath.	Jun 1879	U.S. Fish. Com.	Smithson Inst.
--	-------------------	--	--	----------	-----------------	----------------

Family Simenchelyidae
Simenchelys parasitica Gill.
Pipe-nosed Eel.

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	2327 ✓		Lat 44° 17' N Long 58° 10' W.	Jun 79	U.S. Fish. Com.	Smithson Inst.

24

SUB-CLASS Ganoidei.
SUPER-ORDER HYOGANOIDEI.

Order Cycloganoidei
Family Amiidae

Amia calva, Linn.....

Bow fin; Wag-fish; Mud fish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1803 ✓		Sandusky Ohio		Smithson. Inst.

ORDER Rhomboganoidei.
Family LEPIDOSTEIDÆ.
Lepidosteus osseus, (Lac.) Common Gar Fish.

Ag.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	62 ✓	♀			Purchased.
565 ✓					"
566 ✓					"
	1823 ✓		St. Johns Riv. Fla.	G. B. Groves	Smithson Inst.

Litholepis (Lac.) Jordan
Shorthead gar fish.

Lepidosteus platystomus, Raf.....

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1827 ✓		Mississippi River		Smithson Inst.

Order Selachostomi
Family Polyodontidae
Spine-billed cat.

Polyodon folium, Lac.....

Spine-billed cat; Spine-billed sturgeon, Paddle-fish

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1577 ✓		Pittsburgh Penna		J. Mather.
1808 ✓			Madison Ind		Smithson. Inst.

SUPER-ORDER CHONDROGANOIDE.
ORDER Chondrostei.
Family ACIPENSERIDÆ.
Acipenser oxyrinchus, Mitch. Sharp-nosed Sturgeon.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	961 981 ✓				Purchased
1152 ✓					Smithson Inst.
1864 ✓			Potomac River		" "

Acipenser ruthenus Lin.
Sturgeon

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	2342 ✓		Germany	Jun 79	W. Fish. Com.	Smithson Inst.

Scaphirhynchops platyrhynchus, (Raf.) Cope.

Shovel nosed Sturgeon.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1819 ✓		Cincinnati Ohio		Smithson Inst.

SUB-CLASS Elasmobranchii.

Super. under Holocephali.
Order Holocephali
Family Chimæridæ
Chimæra plumbea Gil.
Brown Chimæra

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
2377			La Hare ?	Jun 79	W. Fish. Com.	Smithson Inst.

SUPER-ORDER PLAGIOSTOMI.

ORDER Raie.

SUB-ORDER MASTICURA.

Family TRYGONIDÆ.

Trygon centrura (Mitch.), Gill. Sting Ray; Stingaree

Dasyatis

Chimæra

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1165 ✓	Jr			Smithson Inst.
	1174 ✓ 1588 ✓	ad jr	Welamane Bay		W. Fish. Com.

Sub under Sarcina
Family Raiaidæ.

Raia undulata, Lacep. Whip-tailed Ray.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	874 ✓				Purchased

249

Family GALEORHINIDÆ.
Eulamia milbertii (Müll. and Henle), Gill. Blue Shark.

Cran.	Skel.	Sex.	Locality.	Wali	Collector.	Donor.
673 673 maxillae 1269						Wm. Robt. K Stone
1878 ✓			Woods Hole Mass		U.S. Fish. Com	Dr. J. H. Van Cope Smithsonian Inst.
2251				Jan. 79	" "	" "

Eulamia obscurus (Lesueur), Gill. Dusky Shark.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1172 ✓					Smithsonian Inst.
1262 ✓					" "

Galeocerdo tigrinus, Müll. and Henle. Tiger Shark.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1052 ✓			Texas	Col. J. B. Clitz	10 th Nat. Hy.

X

Mustela canis (Mitch.), DeKay. Smooth Dogfish.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1167 1167					Smithson Inst.
	1818 ✓		Woods Hole Mass	U.S. Fish Com.	Smithson Inst.

Family SPINACIDÆ.
Squalus americanus (Storer), Gill. Dogfish; Dog Shark.

Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	1155 ✓				Smithson Inst.
	1826 ✓		Woods Hole Mass	U.S. Fish Com.	Smithson Inst.

Centrophorus cœtolepis Günther

Cran.	Skel.	Sex.	Locality.	Date	Collector.	Donor.
	2366 ✓	♂		Jun 79	U.S. Fish Com.	Smithson Inst.

38.

Miscellaneous Specimens of and from Fishes

No.	
104	Entozoa found in Bairds stone tigger (<i>fundulus Bairdii</i>). Presented by Dr. F. Schaffert.
132	Entozoa found in gizzard fish (<i>coregonus clupeformis</i>). Presented by Dr. F. Schaffert.
145	Intestinal canal of lake trout (<i>chistomer namaycush</i>) exhibiting large development of tubular glands. Presented by Dr. F. Schaffert.
630	Specimen of gold fish (<i>carassius auratus</i>) with double tail and one sternal rib connected with first rib of right side. Presented by Mr. A. H. Nichols.
863	Cranium, with superior maxilla in rudimentary condition, of yellow perch (<i>perca americana</i>). Presented by Dr. F. Schaffert.
875	Heads of whip-tailed ray (<i>raia undulata</i>). Presented by Dr. F. Schaffert.
1015	Superior maxilla of saw fish (<i>pristis antiquorum</i>). Presented by Lieutenant Lincoln, 10th Infantry.
1063	Superior maxilla of saw fish (<i>pristis antiquorum</i>). Presented by Assistant Surgeon H. McElderry U.S.A.
1099	Entozoa found in caudal muscles of drum fish (<i>pogonius chromis</i>). Purchased.

No.

1093. Alimentary canal of Conger eel (*Conger oceanica*). Presented by Dr. F. Schaffhirt.
- 1097 Heart of drum fish (*Pogonias chromis*). Presented by Dr. F. Schaffhirt.
- 1098 Cecal (vermiform) appendages of drum fish (*Pogonias chromis*). Presented by Dr. F. Schaffhirt.
- 1135 Superior maxilla of saw fish (*Pristis antiquorum*). Donor unknown.
- 1173 Heart of dusky shark (*Eulamia obscurus*). Received in exchange from the Smithsonian Institution.
- 1269 Jaws of blue shark (*Eulamia millbertii*). Presented by Dr. J. H. Van Arman.
- 1732 Palate bone of drum fish (*Pogonias chromis*). Presented by Surgeon J. R. Smith, Md.
- 2191 Maxillae of Man eating shark (*Squalus carcharias*). Presented by Asst. Surg. J. Porter, U.S.A.
- 2236 Eggs of sharp-nosed skate (*Raja laevis*). Presented by Surgeon J. R. Smith, Md.
- 2382 Embryo, six and a half inches long, of shark.
- 2447 Portion of Superior maxilla of drum fish (*Pogonias chromis*). Presented by W. H. E. Thomas

Miscellaneous Specimen
of
Fishes —

See preceding 2 pages

~~58~~

Class Pisces
 Sub. Class Teleostei
 Order Teleostei
 Family Sciaenidae
 Sub-family Haplodonotinae
 Pogonias chromis Lac.
 Worm-fish - Cyster Worm

No.	Object.	Sex.	Locality.	Collector.	Donor.
1732 1097	Palat. Bone		Chesapeake Bay	Wm. Jos. R. Smith W.D.A.	
1097	Heart		1868	Wm. Fred Schapf W.D.A.	
1098	Caecal (verruca)				
1098	appendages		1868	" " " "	

Family Percidae
 Perca americana Schrank
 Yellow Perch.

No.	Object.	Sex.	Locality.	Collector.	Donor.
863	Cranium with Max Sup. in m- diminishing condition		1866	Wm Fred. Schapf W.D.A.	

Sub. order Osphronomiformes
 Family Salmonidae
 Cristivomer namaycush (Wall.) Gie & Jordan
 Lake Trout.

No.	Object.	Sex.	Locality.	Collector.	Donor.
145	Intestinal Canal de- hibiting large development of tubular glands		1866	Wm. Fred. Schapf W.D.A.	

2

Sub order Ctenopomathi
 Family Cyprinidae.
Carassius auratus Bleeker
 Gold Fish.

No.	Object.	Sex.	Locality.	Collector.	Donor.
30	Spec. with double tail + 10 lateral rib connected with 10 th rib of right side			H. H. Nichols	USA.

Order Apodes
 Sub order Enchelycephali
 Family Congridae
Conger oceanica (Mitch) Gill
 Conger Eel

No.	Object.	Sex.	Locality.	Collector.	Donor.
1093	Alim. Canal		1868	Nor. F. Schapf	USA.

Sub. class Elasmobranchii
 Super order Plagiosomi
 Order Rajae.
 Sub order Saurura
 Family Rajidae.
Raja undulata Lac.
 Whip-tailed Ray.

No.	Object.	Sex.	Locality.	Collector.	Donor.
875	Skant.		1866	Nor. Fred. Schapf	USA
2236	Egg			Surg. J. R. Smith	USA.

Raja laevis Mitch Sharp nosed Skali
 (Fur. Munro Va)
 (Apr 1879)

6x

Family Pristidae
Pristis antiquorum (Linn.) Lath.
 Saw fish.

No.	Object.	Sex.	Locality.	Collector.	Donor.
1015	^{Saw ??} Sup. Max		Texas	Dr. Lincoln 10 th Inf.	
⁶³ 1016	" "		Fort Griffin Galveston Texas 1868	Wm. H. Mc Elenny	
1135	" "				

Order Squali
 Sub-order Rhinai.
 Family Galeorhinidae
Eulamia milbertii (Müll. & Henle) Gill
 Blue Shark

No.	Object.	Sex.	Locality.	Collector.	Donor.
1289	^{Jaws} Maxilla			Dr J. W. Van Arman	

Eulamia obscurus (Seonour) Gill
 Dusky Shark

No.	Object.	Sex.	Locality.	Collector.	Donor.
1173	Heart				Smithsonian Inst.

Sp. ind. Shark

2382	Embryo 6 1/2 inch long			June 1879 W. Fish. Com	Smith Inst.
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